Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-01-08-15 **Date: 11-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-01-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	205	205	4.1	95.9	90-100
3	10 mm	3178	3383	67.7	32.3	25-55
4	4.75 mm	1445	4828	96.6	3.4	0-10
5	Pan	172	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-01-08-15 Date: 11-01-2018

Sample ID No : 2018-01-08-15 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.61	-
4	Bulk Density(Loose) (Kg/l)	1.49	-
5	Bulk Density(Compacted) (Kg/l)	1.53	-
6	Water Absorption(%)	0.19	-
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-01-08-15** **Date: 11-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-01-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	51	51	5.1	94.9	90-100	90-100	90-100	95-100
3	2.36 mm	175	226	22.6	77.4	60-95	75-100	85-100	95-100
4	1.18 mm	202	428	42.8	57.2	30-70	55-90	75-100	90-100
5	600 micron	198	626	62.6	37.4	15-34	35-59	60-79	80-100
6	300 micron	225	851	85.1	14.9	5-20	8-30	12-40	15-50
7	150 micron	102	953	95.3	4.7	0-10	0-10	0-10	0-15
8	Pan	47	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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TEST REPORT OF FINE AGGREGATE

Date: 11-01-2018

Lab ID : CP-2018-01-08-15

Sample ID No : 2018-01-08-15 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.28	-
2	Specific Gravity	2.56	-
3	Material finer than 75 micron(%)	4.1	Unerushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-08-15** **Date: 10-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-01-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	528	638	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	537	649	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	560	675	20.0%	Satisfactory	Satisfactory

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ಟಿ.ದಾಸಪ್ಪಗೌಡ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಪೂರೈಸುವುದು

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-08-15** **Date: 13-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 4th & 5th cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West KRIDL, Project Implementation Unit, No.280, 59th crosss, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-2018
Sample ID No	:	2018-01-08-15 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.25	100.05	1.354	4447	78.1	17.6	16.3	20.4
2	Cover Slab-2	75.28	100.01	1.329	4450	79.6	17.9	16.6	20.8
3	Cover Slab-3	75.33	100.02	1.375	4456	81.0	18.2	16.9	21.1

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